

PLANS FOR CONSTRUCTION OF:

# MISSOURI HEADWATERS STATE PARK GRADE, GRAVEL AND PAVING PROJECT

NEAR THREE FORKS, MONTANA  
FWP #7116412

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## LEGEND

### EXISTING FEATURES

	LATRINE
	ASPHALT
	CONCRETE
	DECIDUOUS TREE
	CONIFER TREE
	JUNIPER
	BUSH
	ADA RAMP
	SINGLE POST SIGN
	DOUBLE POST SIGN
	LIGHT POLE
	UNDERGROUND POWER
	TELEPHONE
	IRRIGATION LINE
	SPRINKLER HEAD
	JACK LEG FENCE
	LANDSCAPING ROCK
	BENCH
	RECTANGULAR POST

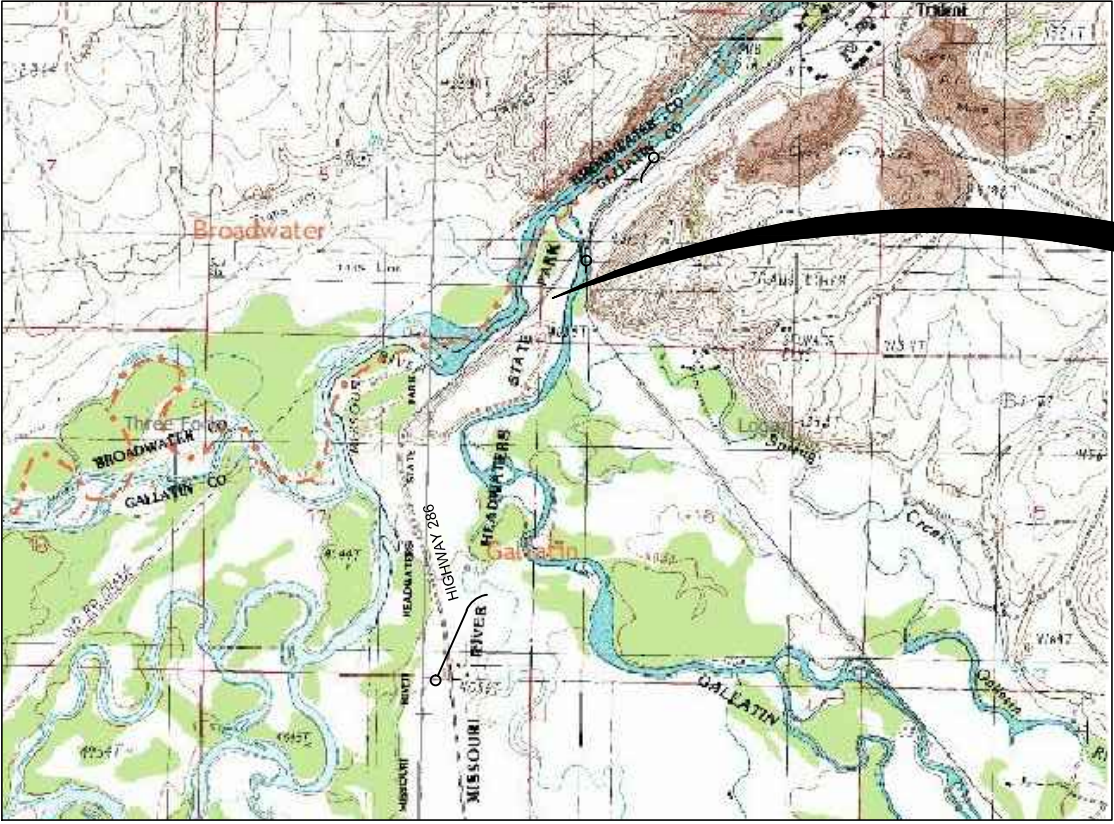
### NEW FEATURES

	ASPHALT (ON EXST BASE COURSE)
	ASPHALT (FULL DEPTH SECTION)
	CONCRETE
	SINGLE POST SIGN
	RELOCATED LANDSCAPING ROCK
	CURVE POINT
	CONCRETE CURB STOP
	ADA RAMP

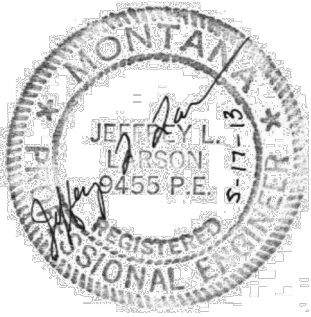
### SPOT ELEVATION LEGEND

	ASPH 995.70	SPOT ELEVATION
	ASPH 995.70	SPOT ELEVATION AT A CURVE POINT

## PROJECT LOCATION MAP



MISSOURI HEADWATERS  
STATE PARK -  
PARKING PROJECT



J. LARSON	MAY 17, 2013
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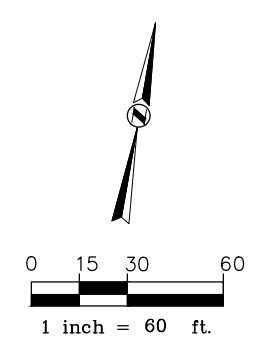
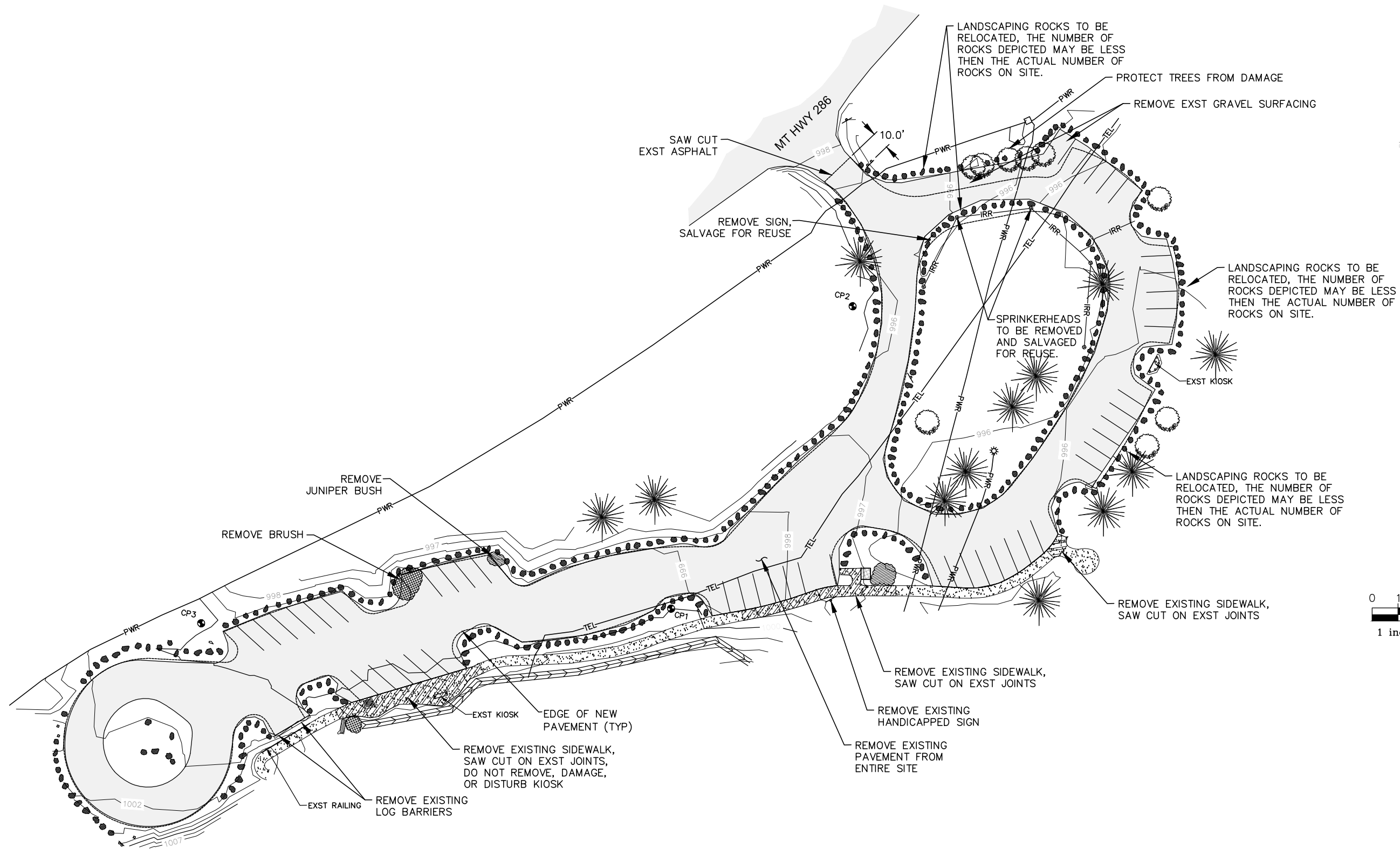
**Montana Fish,  
Wildlife & Parks**

**TITLE SHEET**  
MISSOURI HEADWATERS STATE PARK  
FWP #7116412



28 ANTLER AVENUE  
CLANCY, MT 59634  
406-443-6111  
jeff@larsonce.com

SHEET: **T1**

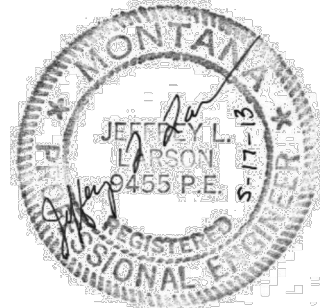
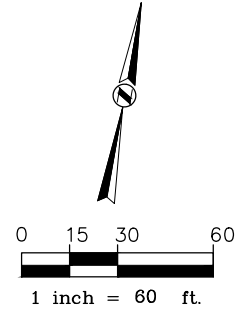
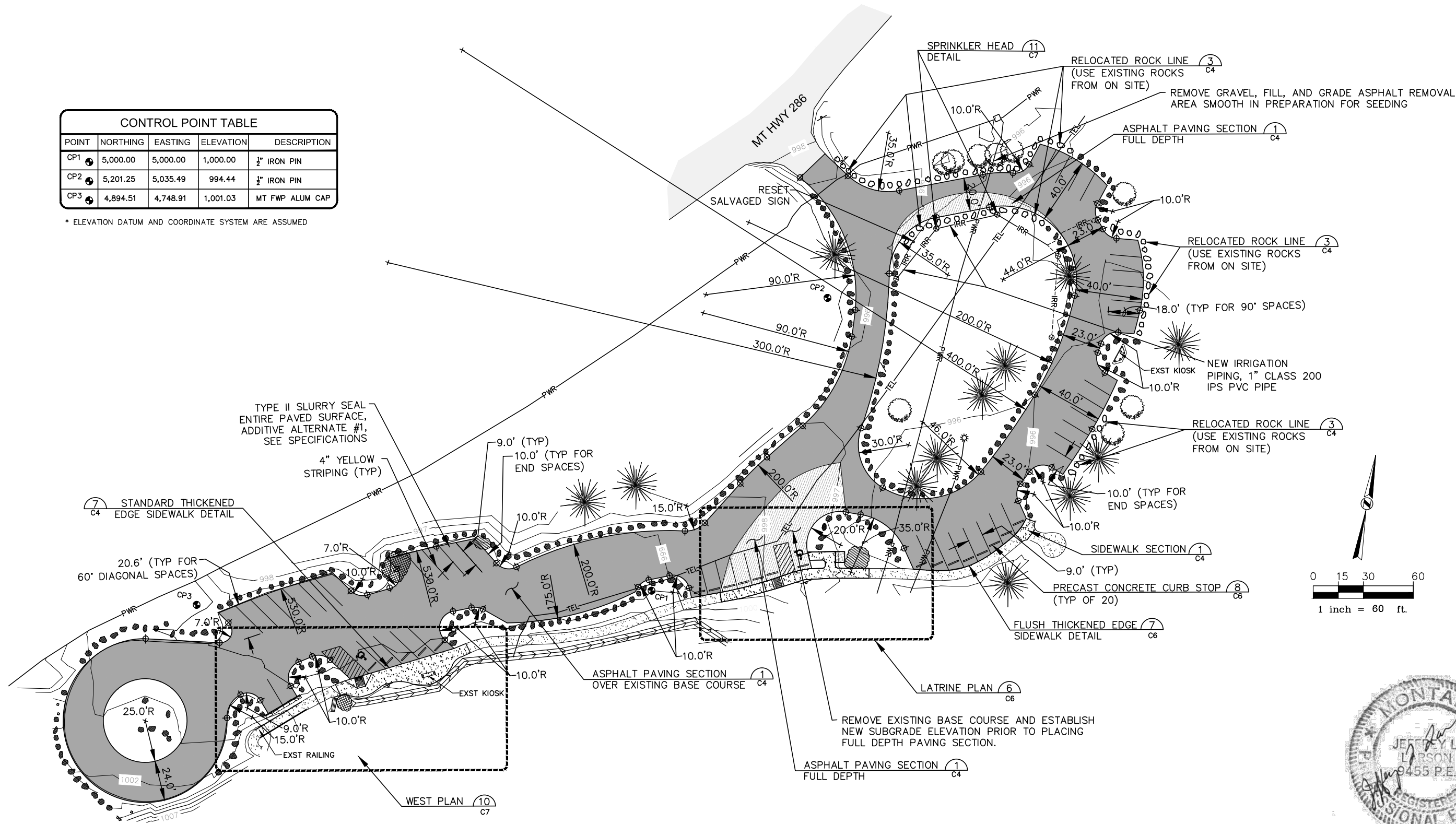


J. LARSON DRAWN BY: MAY 17, 2013 DATE:		REVISD BY: DATE: J. LARSON MAY 17, 2013 APPROVED BY: DATE:		APPROVED BY: DATE:		 <b>Montana Fish, Wildlife &amp; Parks</b>	<b>DEMOLITION PLAN</b> MISSOURI HEADWATERS STATE PARK FWP #7116412	 <b>LARSON CIVIL ENGINEERING, LLC</b> 28 ANTLER AVENUE CLANCY, MT 59634 406-443-6111 jeff@larsonce.com	SHEET: <b>C1</b>
J. LARSON CHECKED BY: MAY 17, 2013 DATE:		APPROVED BY: DATE:		APPROVED BY: DATE:					



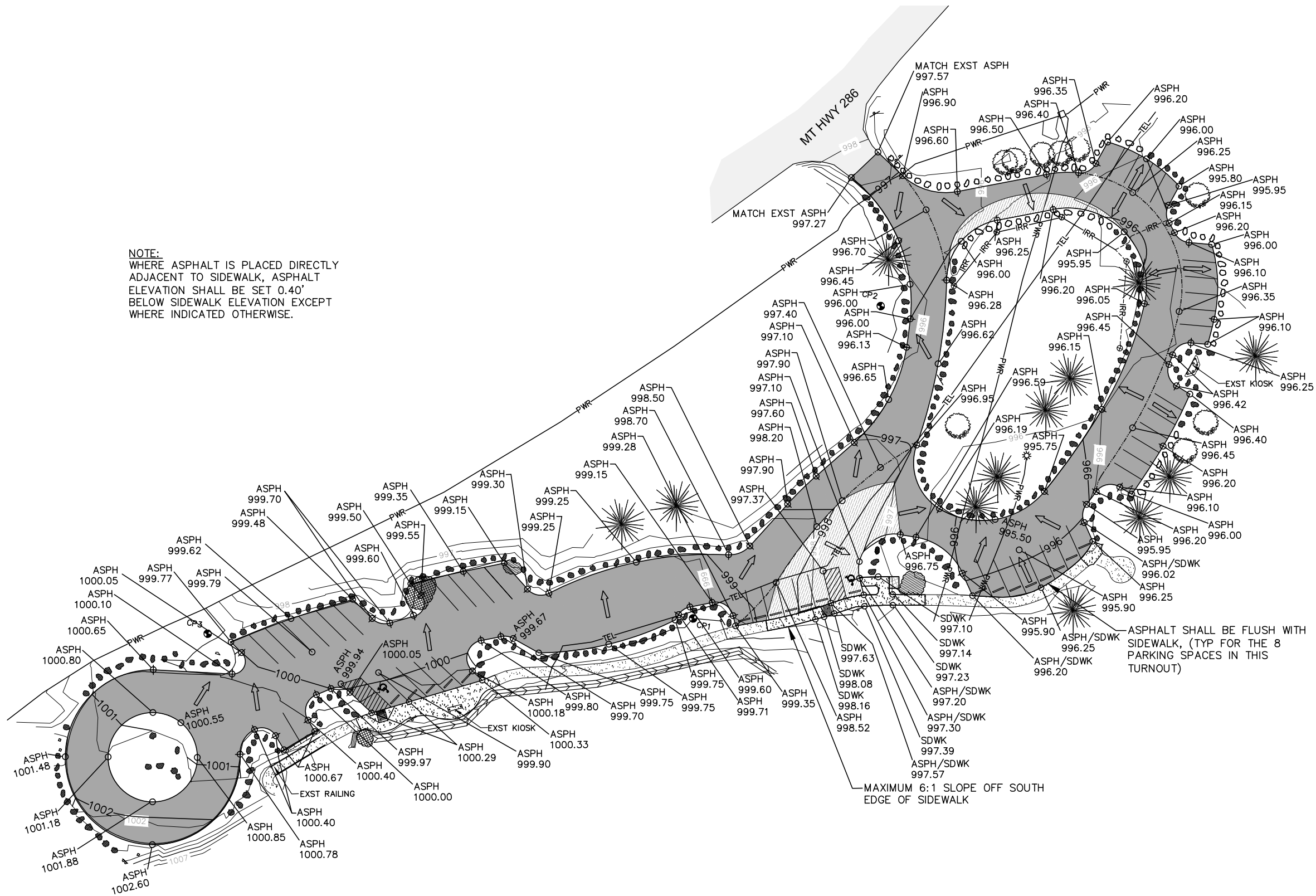
CONTROL POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP1	5,000.00	5,000.00	1,000.00	1/2" IRON PIN
CP2	5,201.25	5,035.49	994.44	1/2" IRON PIN
CP3	4,894.51	4,748.91	1,001.03	MT FWP ALUM CAP

\* ELEVATION DATUM AND COORDINATE SYSTEM ARE ASSUMED



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NOTE:  
WHERE ASPHALT IS PLACED DIRECTLY  
ADJACENT TO SIDEWALK, ASPHALT  
ELEVATION SHALL BE SET 0.40'  
BELOW SIDEWALK ELEVATION EXCEPT  
WHERE INDICATED OTHERWISE.



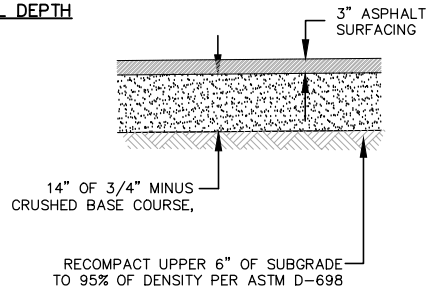
J. LARSON DRAWN BY: DATE: MAY 17, 2013		REVISD BY: DATE:		APPROVED BY: DATE:		 <b>Montana Fish, Wildlife &amp; Parks</b>	<b>GRADING PLAN</b> MISSOURI HEADWATERS STATE PARK FWP #7116412	 <b>LARSON CIVIL ENGINEERING, LLC</b> 28 ANTLER AVENUE CLANCY, MT 59634 406-443-6111 jeff@larsonce.com	SHEET: <b>C3</b>				
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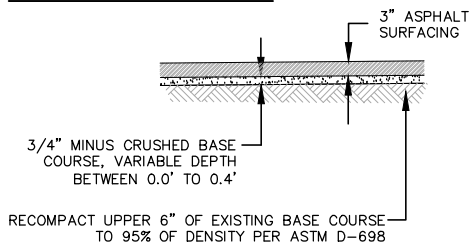
CONSTRUCTION NOTES:

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH "MONTANA PUBLIC WORKS SPECIFICATIONS", SIXTH EDITION (MPW).
2. BEFORE DIGGING, CALL 811 FOR LOCATION OF EXISTING UTILITIES.
3. ALL DISTURBED AREAS AND AREAS DESIGNATED IN THE PLANS FOR SEEDING SHALL BE TOPSOILED, SEEDED, MULCHED, AND FERTILIZED. TOPSOIL SHALL BE IMPORTED TOPSOIL PLACED MINIMUM 6" DEEP (SEE MPW SEEDING SPECIFICATION). SEED MIX SHALL BE NATIVE DRYLAND AS PROVIDED BY CASHMAN'S NURSERY OR APPROVED EQUAL FOR AREAS OF NATIVE GRASS. LAWN AREAS SHALL BE SEEDED WITH KENTUCKY BLUEGRASS.
4. ALL EXCAVATION AND EMBANKMENT ON THIS PROJECT, SHALL MEET THE REQUIREMENTS OF MPW SPECIFICATION 02/230 STREET EXCAVATION, BACKFILL AND COMPACTION.
5. THE DRAWINGS ARE INTENDED TO COMMUNICATE THE INTENT OF THE PROJECT ONLY AND DO NOT INCLUDE ALL EXISTING FEATURES. CONTRACTOR IS RESPONSIBLE TO INSPECT THE SITE TO DETERMINE FEATURES IN CONFLICT WITH THE WORK.
6. PLANT MIX SURFACING SHALL BE TYPE-B, WITH ASPHALT CEMENT PG 58-28.
7. CONCRETE SIDEWALK AND ADA RAMPS SHALL BE CROSS SLOPED AT A MAXIMUM 1.8% OR AS INDICATED.
8. PAVEMENT MARKINGS SHALL BE 4" YELLOW STRIPES AND BLUE ADA SYMBOLS. ALL PAINT SHALL BE WATERBORNE PAVEMENT MARKING PAINT WITH REFLECTIVE GLASS BEADS.
9. ALL TESTING OF CONCRETE, AND PAVEMENT REQUIRED BY MPW SHALL BE PROVIDED BY AN INDEPENDENT TESTING FIRM AT THE EXPENSE OF THE CONTRACTOR. A MINIMUM OF 1 COMPACTION TEST SHALL BE PROVIDED FOR EVERY 500 SY OF BASE COURSE OR ASPHALT PLACED.
10. CROSS SLOPE OF ADA PARKING AND LOADING STALLS SHALL NOT EXCEED 2.0% SLOPE IN ANY DIRECTION.
11. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL SIGNING AND BARRICADES TO CLOSE THE PARKING LOT DURING CONSTRUCTION. ADVANCE WARNING SIGNS SHALL BE PLACED IN BOTH DIRECTIONS FROM THE APPROACH TO WARN OF THE CLOSURE. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR REVIEW OF THE ENGINEER AND MDT. THE PARKING LOT SHALL NOT BE CLOSED WITHOUT AN APPROVED TRAFFIC CONTROL SUBMITTAL. TRAFFIC CONTROL SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
12. TO INSURE DRAINAGE THE CRUSHED BASE COURSE SURFACE SHALL BE BLUE TOPPED WITH HUBS AT A MAXIMUM 50 FOOT SPACING, FINAL SURFACE TOLERANCES SHALL BE AS SPECIFIED IN MPW.
13. IMPORTED TOPSOIL SHALL BE PLACED TO TRANSITION FROM NEW ASPHALT SURFACE TO EXISTING TERRAIN. AREAS OF POTENTIAL PONDING SHALL BE FILLED AND GRADED TO DRAIN. ALL TRANSITIONS SHALL BE GRADED SMOOTH. WHERE BASE COURSE GRAVEL IS EXPOSED BY EXISTING ASPHALT REMOVAL, THAT IS MORE THAN 12" FROM THE NEW ASPHALT EDGE, IT SHALL BE REMOVED AND REPLACED WITH TOPSOIL.

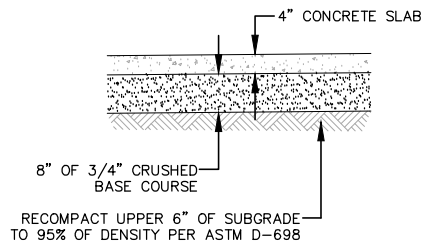
STANDARD PAVEMENT-  
FULL DEPTH



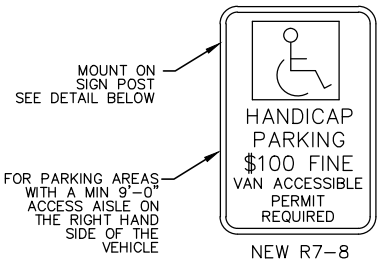
STANDARD PAVEMENT-  
OVER EXISTING BASE COURSE



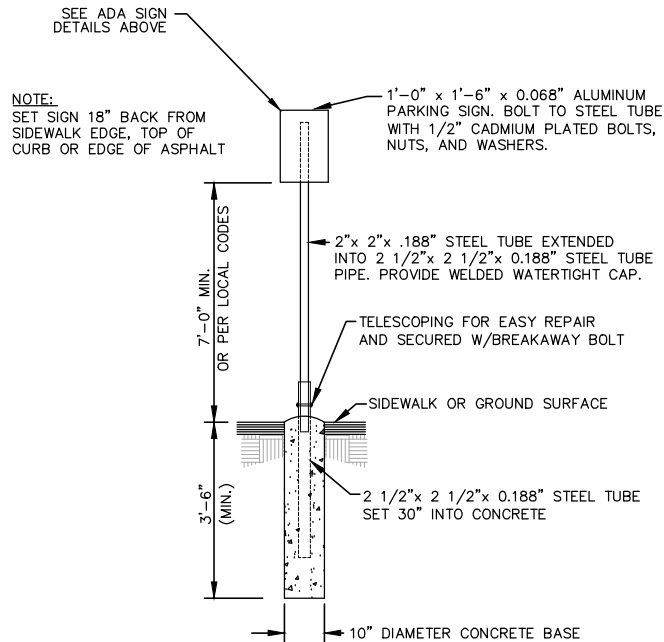
STANDARD SIDEWALK



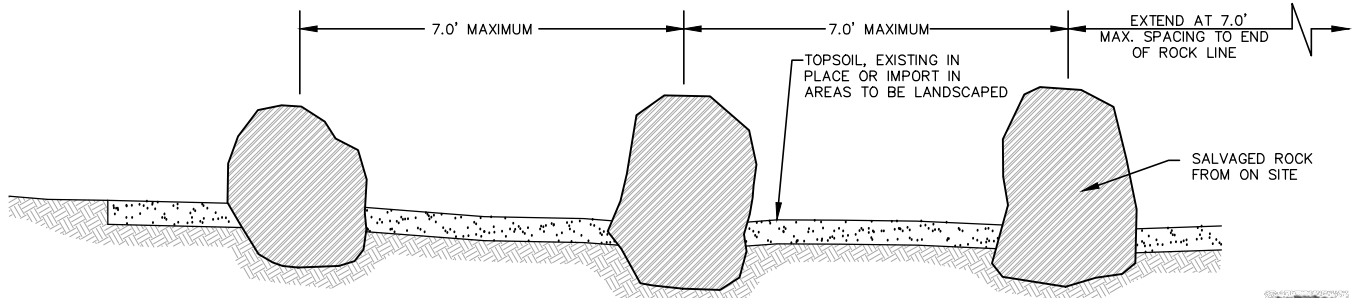
TYPICAL SECTIONS 1  
NO SCALE C2,C6,C8



VAN ACCESSIBLE ADA PARKING SIGN  
NO SCALE



PARKING SIGN SUPPORT 2  
NO SCALE C6,C7,C8



ROCK LINE DETAIL 3  
C2



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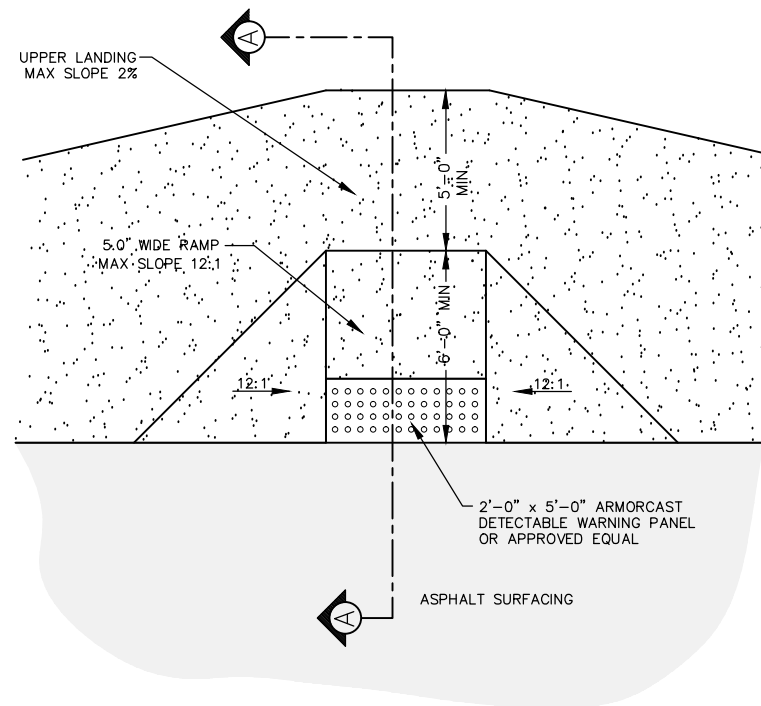
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NOTES AND DETAILS  
MISSOURI HEADWATERS STATE PARK  
FWP #7116412

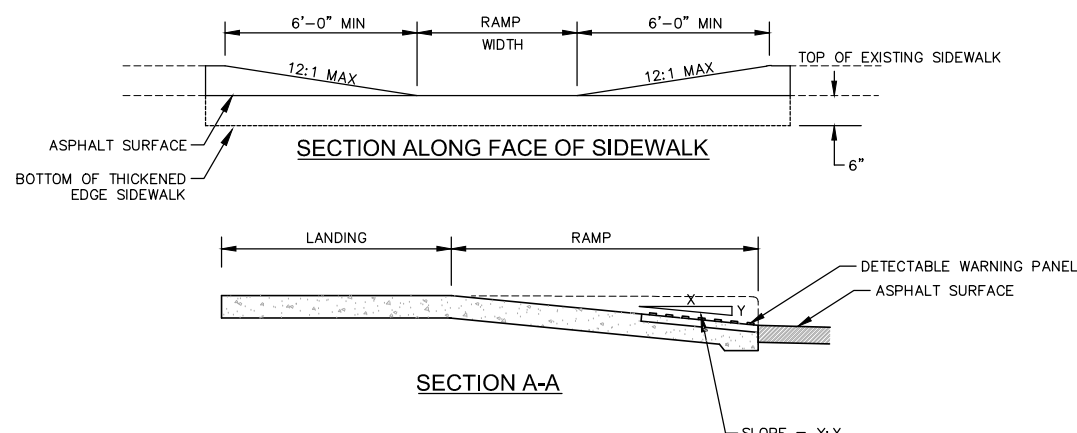
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SHEET: C4



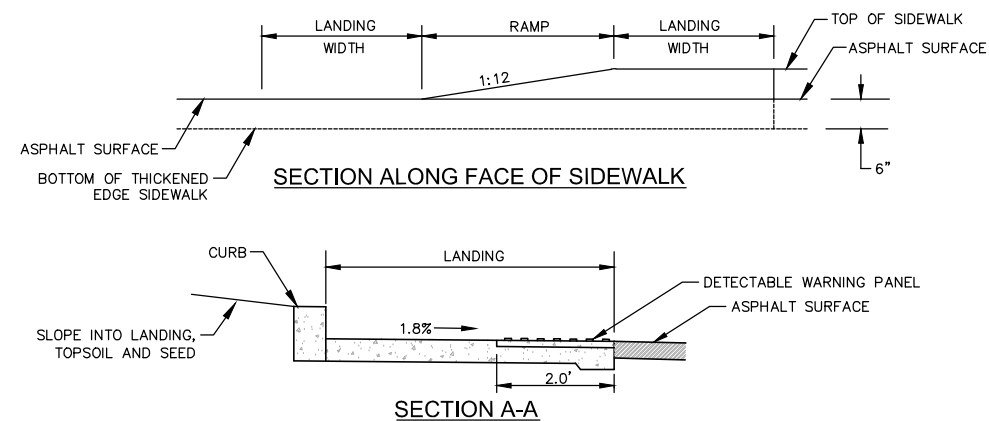
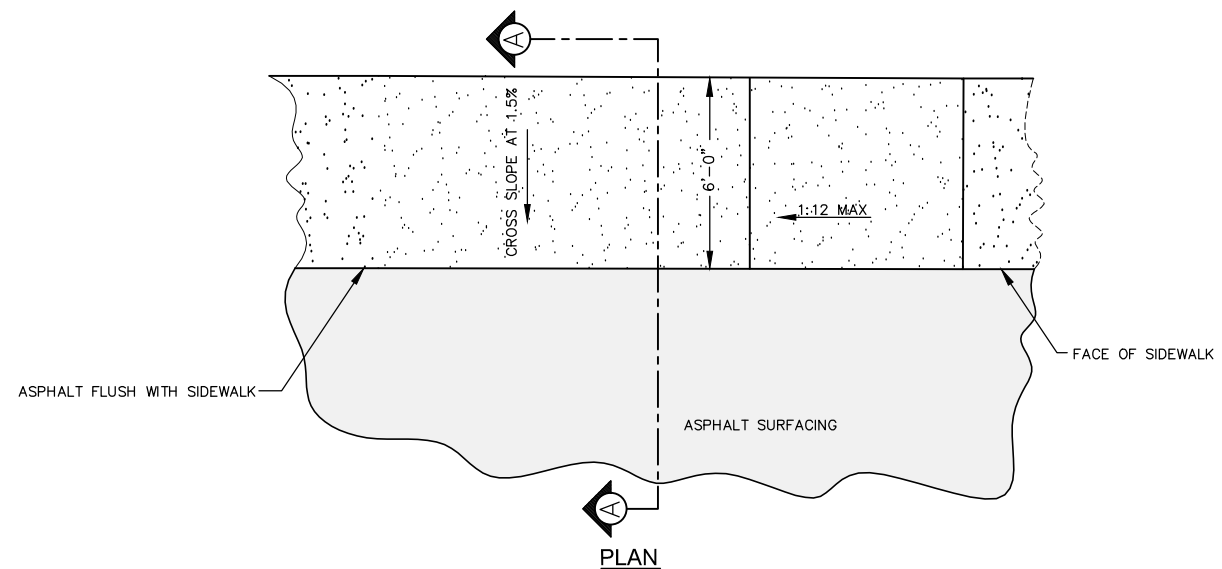
PLAN



NOTES:

1. THE WIDTH OF THE RAMP IS 5'-0".
2. THE DESIRED CURB RAMP SLOPE IS 1:20 (5%), MAXIMUM SLOPE IS 1:12 (8.3%).
3. THE MINIMUM LANDING LENGTH IS 5.0' FEET.
4. THE DESIRED CROSS SLOPE OF THE SIDEWALK, LANDING AND RAMP IS 1.5%. MAXIMUM CROSS SLOPE IS 2%.
5. SEE STANDARD SIDEWALK SECTION ON SHEET C4. THIS SECTION APPLIES TO LANDINGS, FLARES AND RAMPS.

FLARED RAMP   
NO SCALE C7



NOTES:

1. THE WIDTH OF THE LANDING IS 5'-0".
2. THE DESIRED CURB RAMP SLOPE IS 5% (1:20), MAXIMUM RAMP SLOPE IS 8.3% (1:12).
3. THE MINIMUM LANDING LENGTH IS 6'-0" FEET.
4. THE DESIRED CROSS SLOPE OF THE SIDEWALK, LANDING AND RAMP IS 1:66.7 (1.5%), MAXIMUM CROSS SLOPE IS 2% (1:50).
5. SEE STANDARD SIDEWALK SECTION ON SHEET C4. THIS SECTION APPLIES TO LANDINGS, AND RAMPS.

PARALLEL CURB RAMP   
NO SCALE C6, C8



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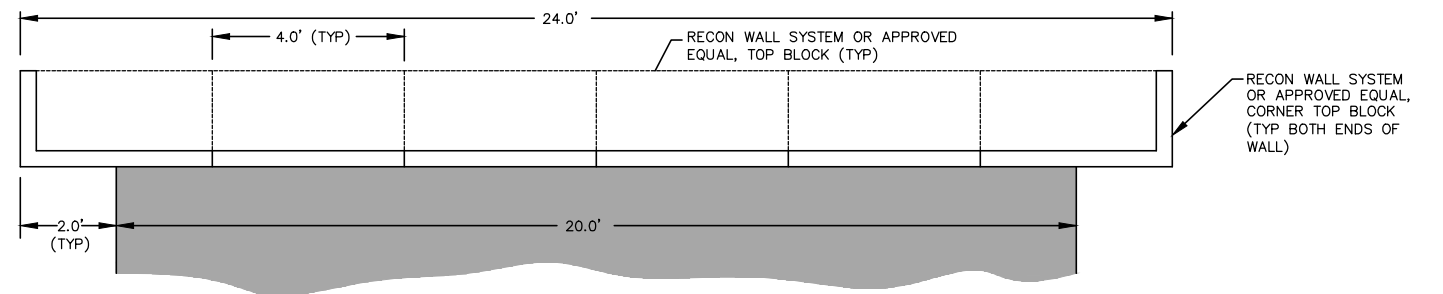
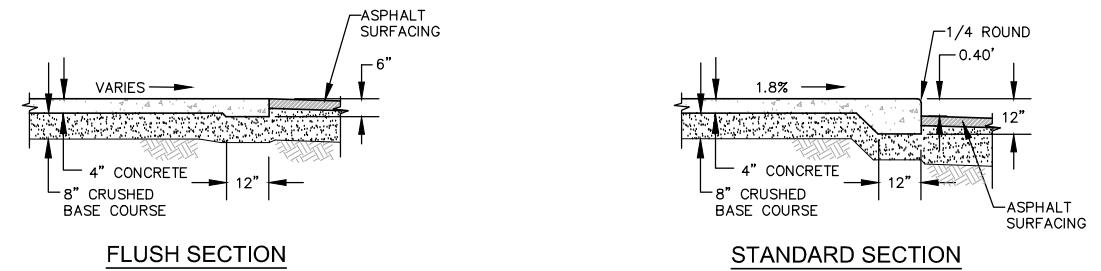
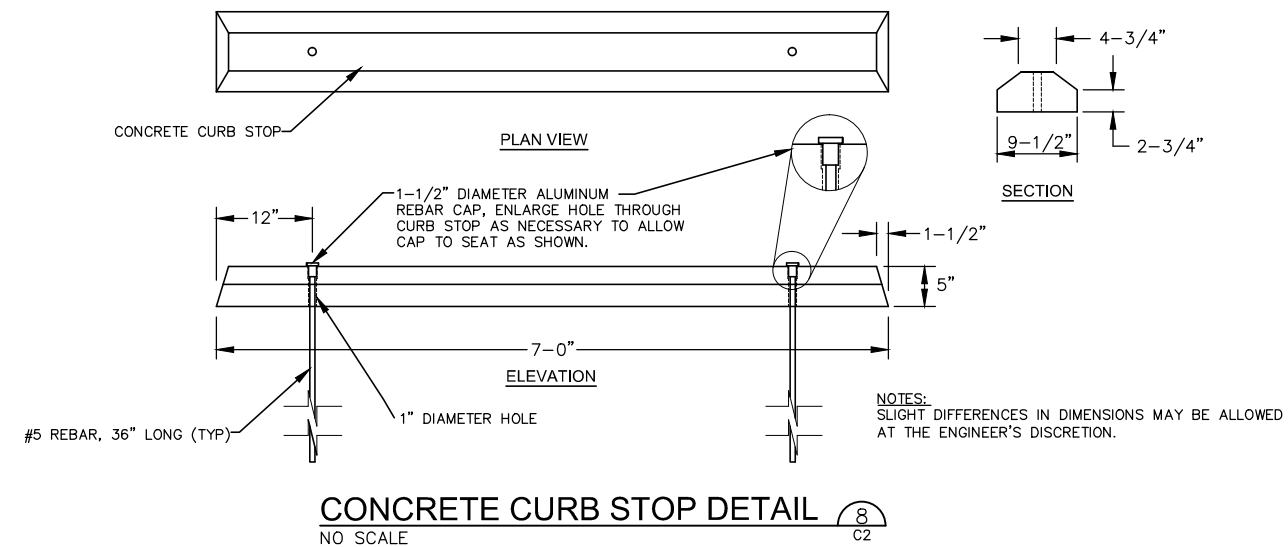
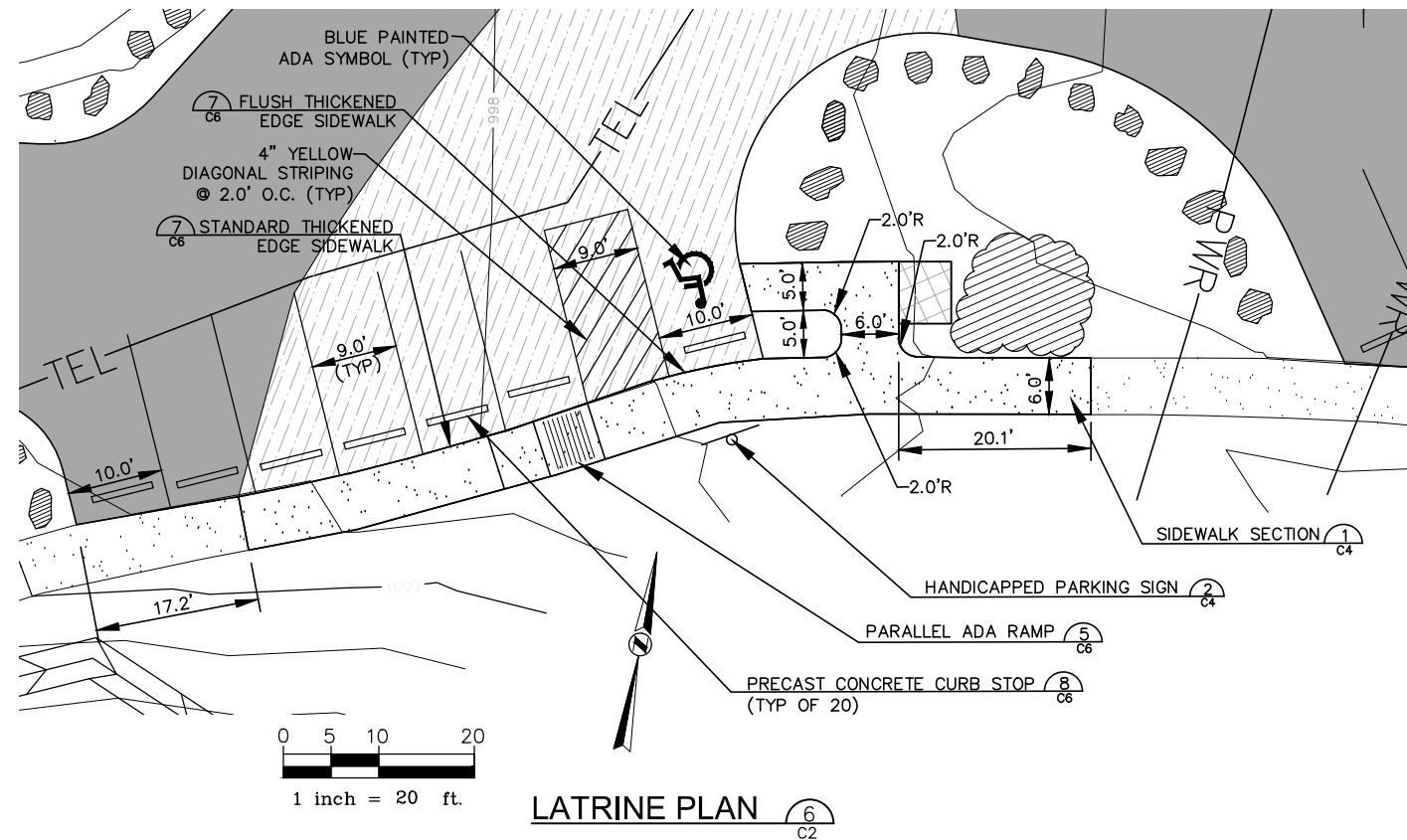
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**ADA DETAILS**  
MISSOURI HEADWATERS STATE PARK  
FWP #7116412

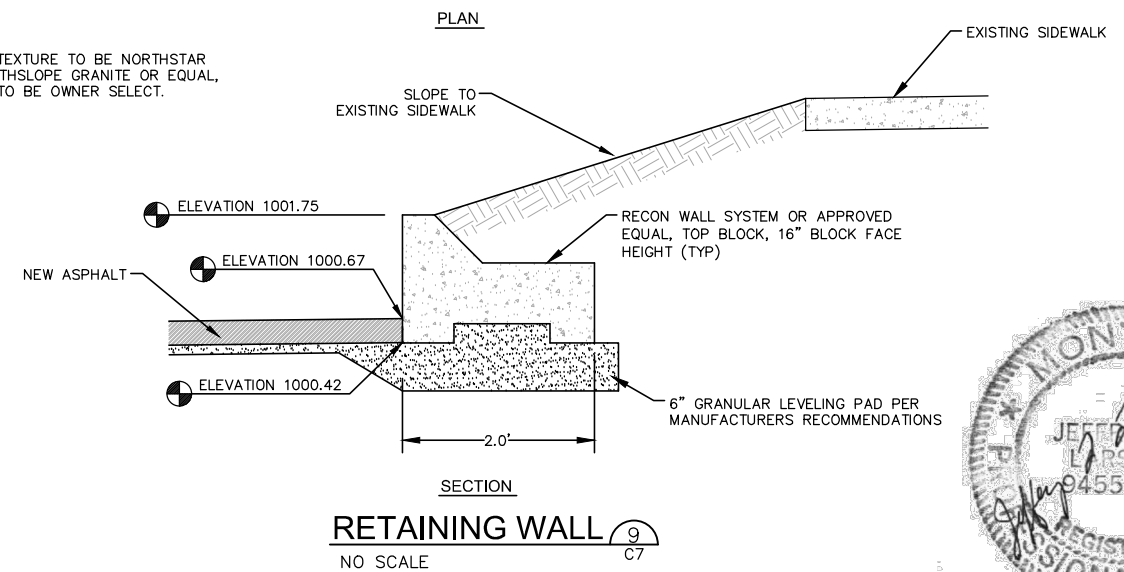


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SHEET: **C5**



NOTE:  
BLOCK TEXTURE TO BE NORTHSTAR  
OR NORTHSLOPE GRANITE OR EQUAL,  
COLOR TO BE OWNER SELECT.



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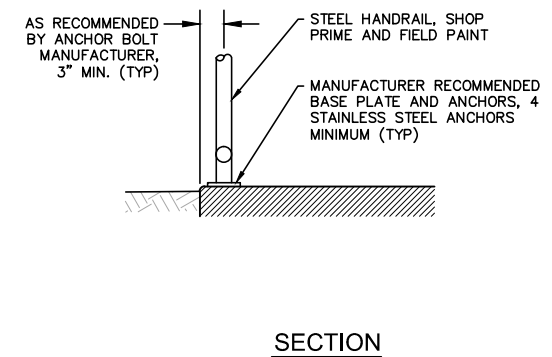
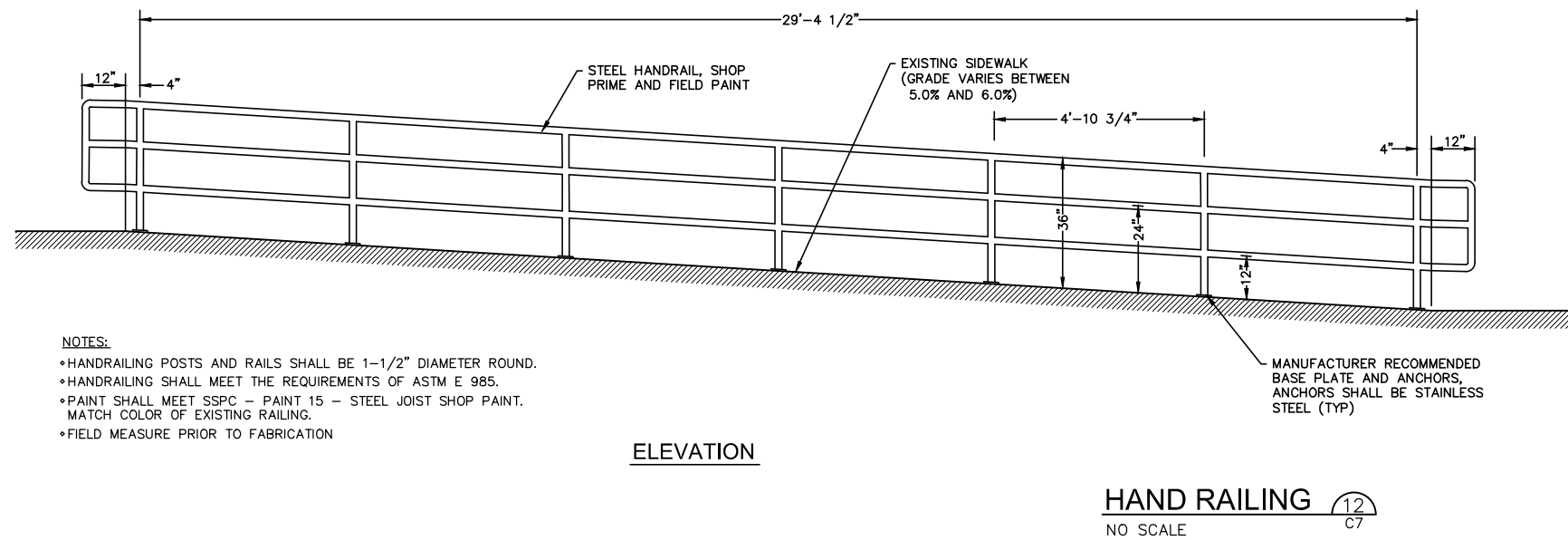
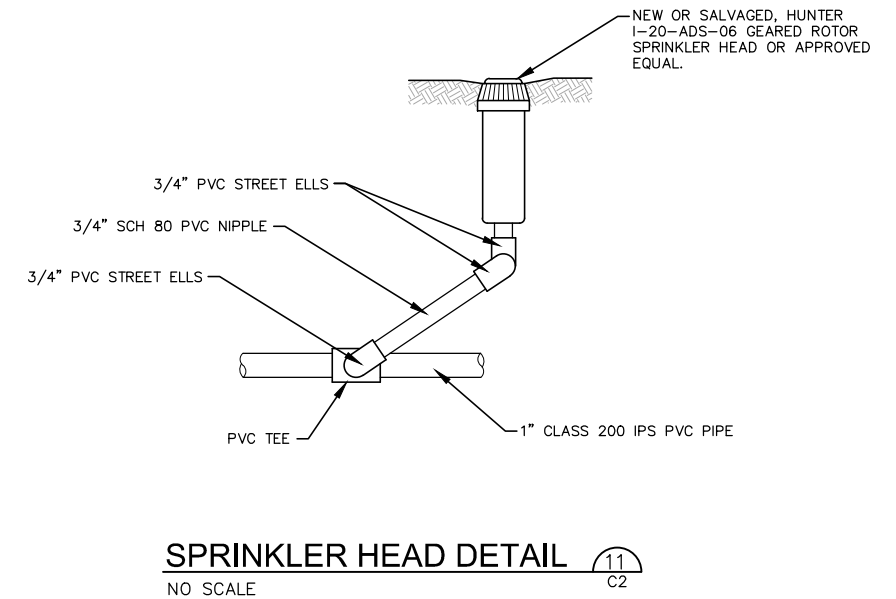
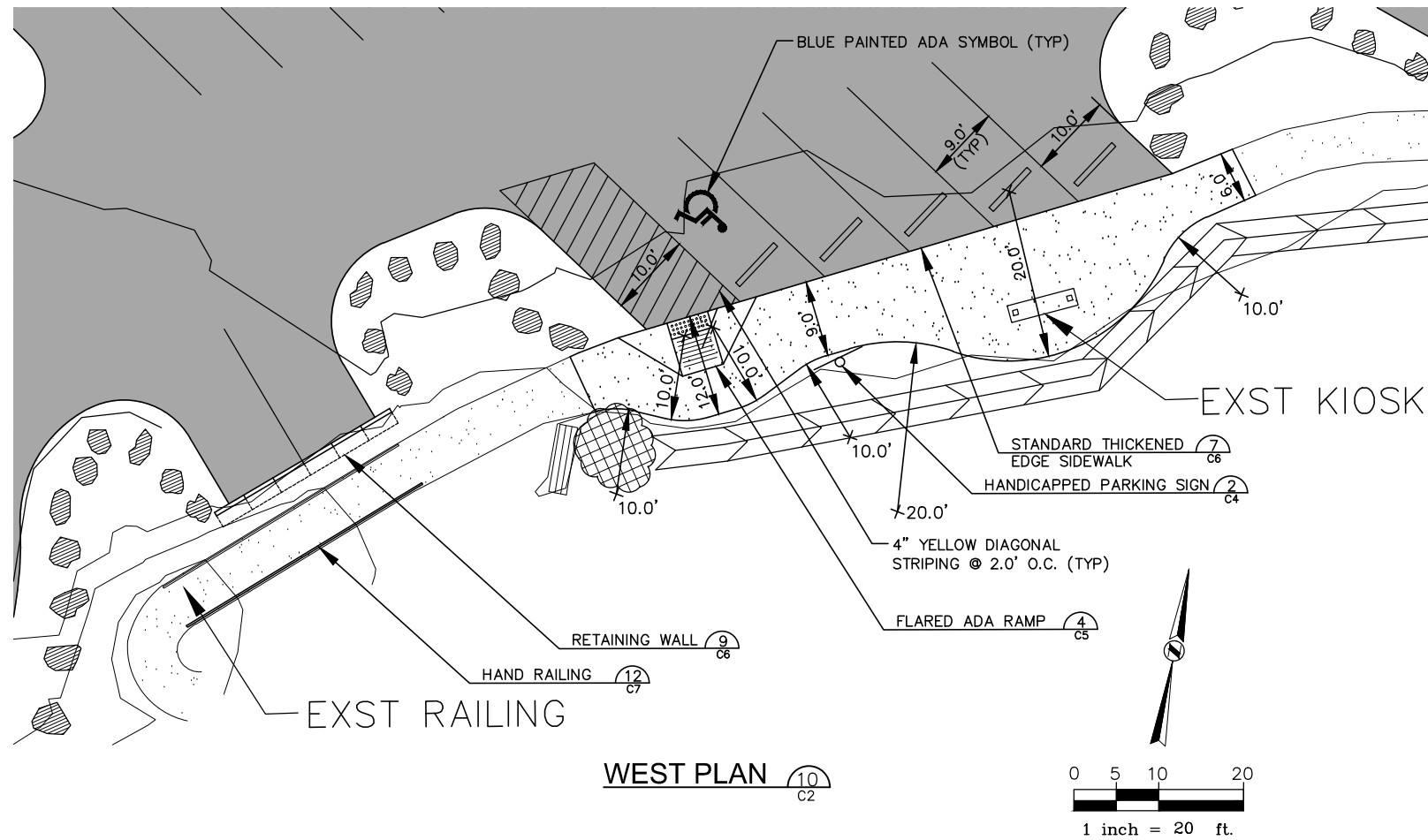
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PLAN AND DETAILS  
MISSOURI HEADWATERS STATE PARK  
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SHEET: C6



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**Montana Fish,  
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**PLAN AND DETAILS (2)**  
 MISSOURI HEADWATERS STATE PARK  
 FWP #7116412

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SHEET: **C7**